

ML8500



automatic biomedical illumination

ML8500 automatic illumination kit has up to six built-in lasers. Cloud-based composing of illumination programs can be done remotely which enables effective research work. ML8500 keeps sample plates within specified temperature and CO₂ range.



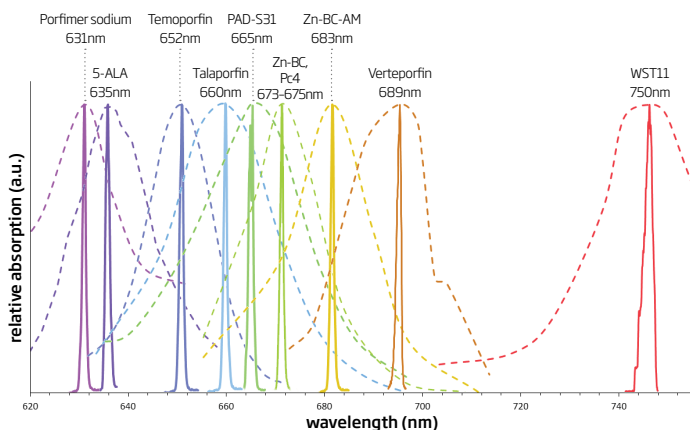
Accurate and repeatable illumination

ML8500 is an automatic illumination designed to make the in-vitro scientist's work easier. Operating ML8500 is very easy with an intuitive touch-screen interface and cloud connection.

ML8500 enables sequential illumination of multi-well sample plates and optional fluorescence imaging/measurement. Each well in the plate can have individual illumination recipe - even using multiple wavelengths is possible.

Gathering data for statistical analyses is also simple, thanks to seamless support of different well plates by ML8500.

Composing the illumination recipe can be done conveniently from your office computer via the Modulight Cloud connection. Prepare the samples and insert into ML8500 - the automatized system takes care of the rest!



The absorption spectra (dashed lines) of common photosensitizers and the laser emission spectra (solid lines) of Modulight lasers.

Technical information

- ❑ Select up to six Modulight lasers with different wavelengths
- ❑ Wavelengths: 400-2000 nm
- ❑ Bottom or top illumination available
- ❑ Temperature and CO₂ control
- ❑ Key switch and interlocks for laser safety

Sample plate type	typical illumination intensity
24 well plate	100 mW/cm ²
48 well plate	100 mW/cm ²
96 well plate (single well)	100 mW/cm ²
100 mm petri dish	25 mW/cm ²
50 mm petri dish	50 mW/cm ²

Typical applications

- ❑ Illumination of photoactive molecules
- ❑ Cardiotoxicity testing
- ❑ Optogenetics
- ❑ Ophthalmic oncology

